

Patent Abstracts of Japan

PUBLICATION NUMBER : 01112047
PUBLICATION DATE : 28-04-89

APPLICATION DATE : 23-10-87
APPLICATION NUMBER : 62268951

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INT.CL. : F16F 15/30 C08J 5/08

TITLE : FLY WHEEL AND MANUFACTURE THEREOF

ABSTRACT : PURPOSE: To produce an effect equivalent to that of a false equal energy variable pressure disc even by an equal thickness disc, by a method wherein a fly wheel is formed by fiber-reinforced plastic in which reinforcing fibers are aligned in the circumferential direction of a disc, and oxynitride glass fiber having a modulus of elasticity changed in the direction of length is wound as the reinforcing fiber.

CONSTITUTION: In FRP in which reinforcing fibers are aligned in the circumferential direction of a disc, by using oxynitride glass fibers having a modulus of elasticity continuously decreased or increased in the direction of the length of a fiber, dynamic characteristics are changed in the radial direction of the disc. When the oxynitride glass fibers are applied for a fly wheel, by arranging reinforcing fibers, e.g. oxynitride glass, having a high nitrogen content, i.e. a high modulus of elasticity, on the inner side in a radial direction of the disc, even an equal thickness disc has the same effect as that of a false equal stress variable pressure disc, and besides the weight of the disc can be decreased. By arranging reinforcing fibers, having a high nitrogen content and a high modulus of elasticity, toward the outside in a radial direction, a substance in which a circumferential stress and a radial stress are distributed in a proper state is provided.

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